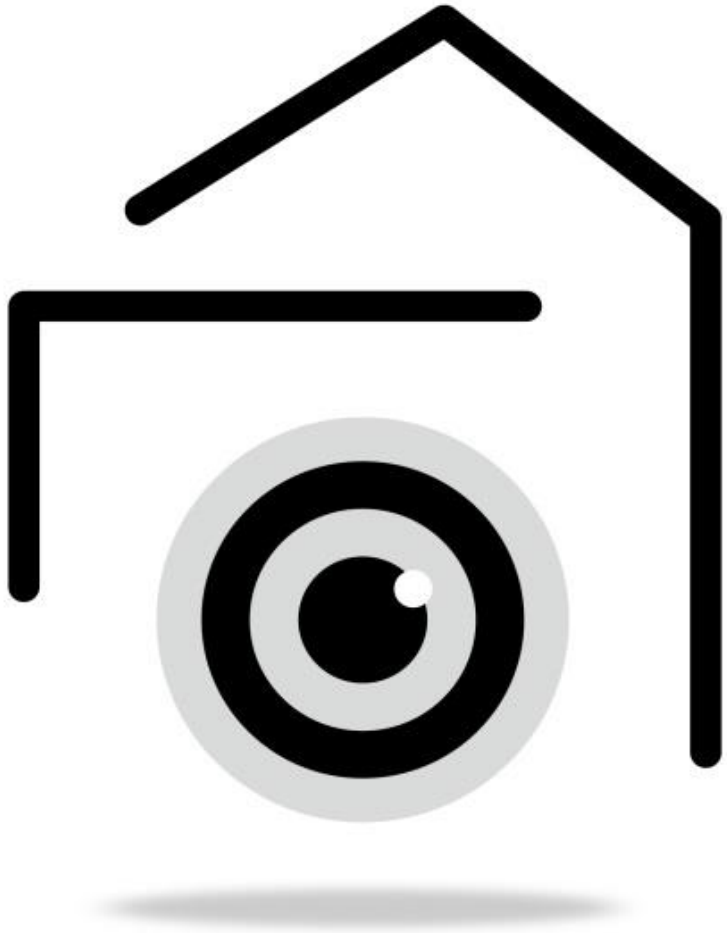
Hills Video Security CCTV

Apple App

User Manual



Thank you for purchasing our product. This manual applies to Hills Video Security CCTV (iOS) mobile client software; please read it carefully for the better use of this software.
The contents in this manual are subject to change without notice.

For further information, including datasheets, FAQ and technical support please visit:

www.hills.com.au/videosecurity

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Chapter 1 Introduction

1.1 Overview

Hills Video Security CCTV (iOS) mobile client software, which is designed for iPhone on the basis of iOS (Version 5.0 or higher), can be used to remotely monitor the live video from embedded DVR, NVR, network camera, network speed dome and encoder via wireless network, play back record files, locally store and manage pictures and videos, manage alarm notification and information and control alarm output as well.

Hills Video Security CCTV software also provides the Hills Auto-Config service for managing your Hills Auto-Config account and the added devices.

With this software installed in your iPhone, you are able to log onto the front-end device via Wi-Fi, 3G or 4G; besides, if there is no public IP available for the device, it's accessible by using a dynamic domain name, or by mapping ports to the public IP of router.

Notes:

1. Wi-Fi, 3G or 4G access service must be supported by the iPhone.
2. Network traffic charges may be produced during the use of this client software. Please refer to the local ISP.

1.2 System Requirements

iOS 5.0 or higher version, including iPhone4, iPhone4S, iPhone5, iPhone5C and iPhone5S series products.

1.3 Conventions

In order to simplify the description, we define the "Hills Video Security CCTV (iOS) mobile client software" as "software" and "DVR, NVR, encoder, network camera, network speed dome" as "device" in the following chapters.

Chapter 2 Installing and Uninstalling the Software

2.1 Installing the Software

Steps:

1. Log onto the **App Store**.
2. Enter “Hills Video Security CCTV” to search the mobile client software.
3. Download and install it to your iPhone.
4. After having installed the software successfully, you can click to start the software.

2.2 Uninstalling the Software

Click and hold the in the program list until it changes to . Click to uninstall the mobile client software.

Chapter 3 Running the Software

After having installed the software successfully, click to run the software.

3.1 Interfaces Introduction

The software has seven main functions, including Live View, Remote Playback, Device Management, Alarm Management, Picture & Video Management, Configuration and Hills Auto-Config Management.

You can click to activate the main menu.

Description of Main Menu

Menu	Descriptions
Live View	Live view, PTZ control, local recording, alarm outputs control, etc.
Remote Playback	Play back the recorded files stored in the device.
Devices	Display device list, add/delete/modify device, view device information, etc.
Alarm	Enable alarm notification, manage alarm information and view the alarm linkage information.
Picture and Video	Display and manage the local video files and pictures.

Configuration	Configure password protection, software update and email feedback. Check the traffic statistics and configure Wi-Fi settings. View software's version information, help file and main features.
Hills Auto-Config	Register a Hills Auto-Config account, log into your Hills Auto-Config and manage the devices which support the Hills Auto-Config service.

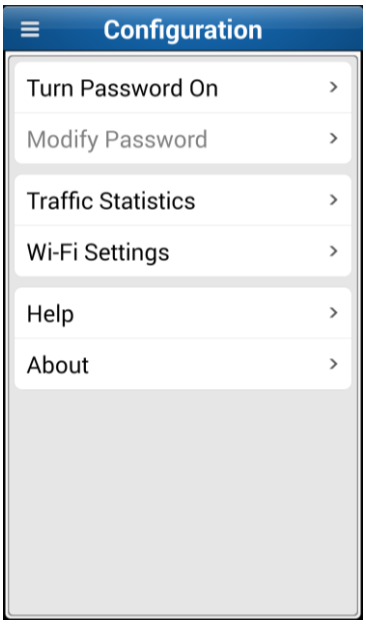
3.2 Password Protection

With the password protection enabled, only the user that has the password can access the software.

Task 1: Enable Password Protection

Steps:

1. Click and select to enter the Configuration interface.



2. Click **Turn Password On** to enter the password settings interface.
3. Enter the password for the software and confirm it to activate the password protection.

Next time, if you want to run the software after exit, you need to enter the password to log in first.

Task 2: Modify the Password

Click **Modify Password** and enter corresponding information to change the password.

Task 3: Disable Password Protection

Steps:

1. Click **Turn Password Off** to disable the password protection.
2. Enter the password to confirm the settings.

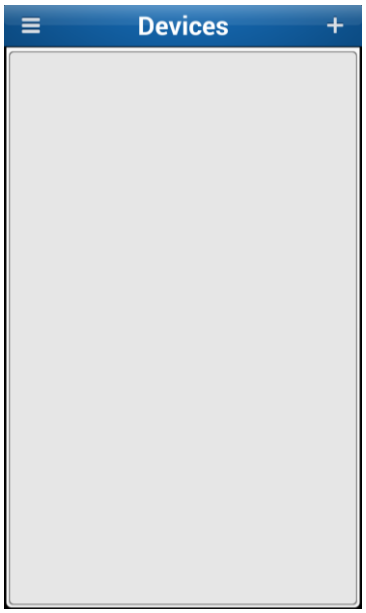
Chapter 4 Device Management

4.1 Adding a Device

You need to add a device firstly that all operations such as live view, playback and device management can be accessible.

Steps:

1. Click and select to enter the Device Management interface.



2. Click to add a new device.

   Alias: Edit a name for the device as desired.

   Register Mode: Select the register mode to HiDDNS, IP/Domain, or IP Server.

   - IP/Domain: You can access the device through fixed IP address or domain name. You need to edit the IP address or domain address and the port of the device.

   User Name: Input the user name of the added device.

   Password: Input the password of the added device.

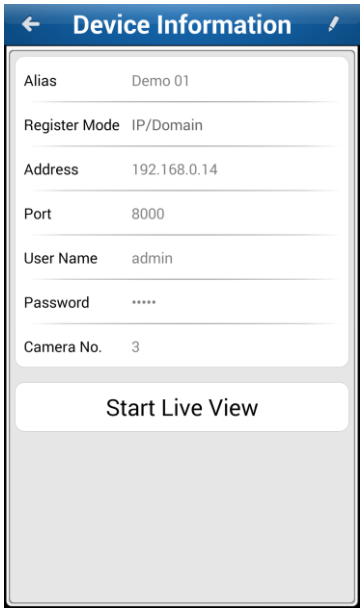
   Camera No.: The number of the camera(s) under the device can be obtained after the device is successfully added.

3. Click to confirm the settings.

   Notes:

   1) If the device is successfully added, the software can obtain the camera information of the device.

2) Up to 256 devices can be added.
3) You can click **Start Live View** to live view the newly added device. Please refer to *Chapter 5* for detailed operation about live view.

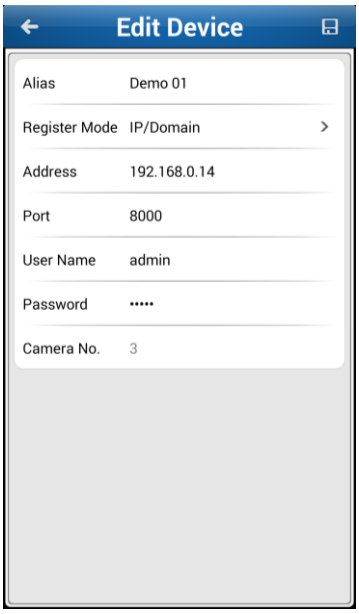


Click to return to the Device Management interface. The successfully added new device will be displayed in the Device Management interface.

4.2 Modifying a Device

Steps:

1. In the Device Management interface, select a device and click the device item to view its parameters.
2. Click and then you can modify the parameters of the device according to actual needs.



3. Click to save the modification.

4. Click to return to the Device Management interface.

4.3 Deleting a Device

In the Device Management interface, select a device and slide the item to access the **Delete** button. Click **Delete** to remove the selected device.

Chapter 5 Live View

After the device is successfully added, you can view live video from the devices, manage the alarm output of the device and control PTZ movement as well.

Note: The alarm output and PTZ control should be supported by the added device.

Click and select to enter the Live View interface. The screen will be displayed in 1-division mode by default.

Icon	Description
	Go to the Camera List interface.
	Capture picture of the selected live view window.
	Record the video of the selected live view window.
	PTZ control panel.
	Image quality panel.
	Stop all the live view.
	Audio control.
	Two-way audio.
	Alarm output control panel.
	Digital zoom.

Note: You can slide the icon toolbar to show the hidden icons.

Start Live View

Steps:

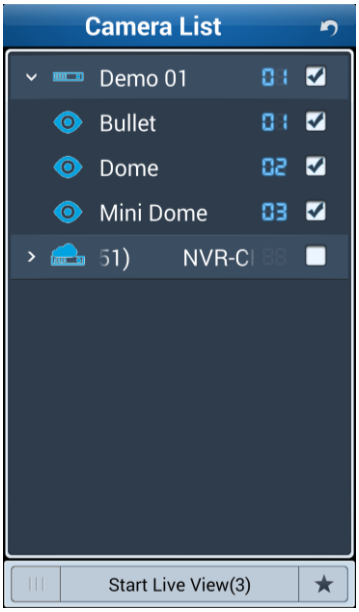
1. Click to display the added camera list. Click a device node to list all the cameras under it.

Note: The name of the camera under the device is obtained from the device.

2. Check ☐ checkbox in the device item to select all the cameras under it, or check ☐ checkbox in the camera item to select the specific camera as desired.

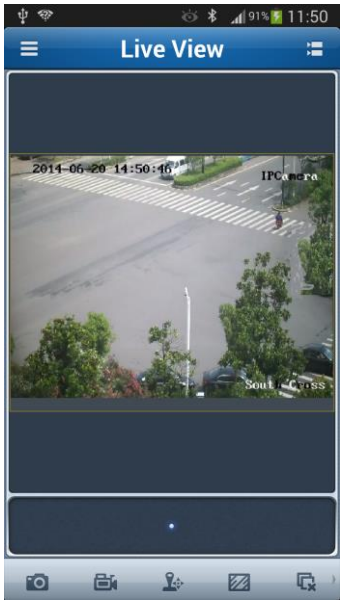
Notes:

1) You can slide the camera list downwards to refresh the device status.
2) If the channel-zero is supported by the device and it has been configured, you can select to live view by channel-zero.
3) The number (e.g.,) indicates the displaying window No..
4) If there is only one channel under the device, the icon of the device shows as . Otherwise, it shows as .



3. Click **Start Live View** to start live view of the selected camera(s). Or you can click to return to the Live View interface.

Note: Up to 16 cameras can be selected for live viewing at the same time.



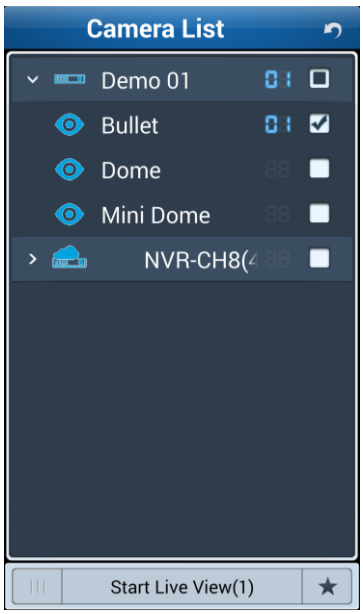
Favorites Configuration

You can add the commonly used camera(s) to the favorites so that you can access the camera(s) conveniently.

Steps:

1. Perform the *Step 1* and *Step 2* of *Start Live View* to select the camera(s).
2. Click ★ to add the camera(s) to the Favorites.
3. In the pop-up dialog box, enter the name for the favorites.
4. Click **Confirm** to save the settings.

The successfully added favorites will be shown in the device list area.



Record & Capture

In live view mode, select a live viewing window and click the to record the video of it, or click the to capture a picture of it.

The videos and pictures can be viewed and managed in the Picture & Video Management interface (refer to *Chapter 8*).

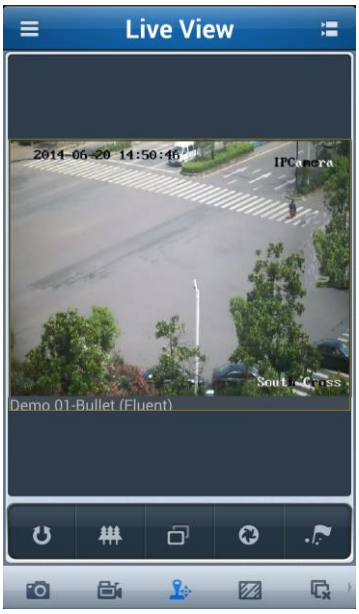
Note: It is recommended not to record 4 cameras simultaneously during live view due to the performance limit of the iPhone.

PTZ Control

In live view mode, select a playing window and click to activate PTZ control panel, and the changes to .

Note: The PTZ control should be supported by the added device.

You can slide on the live view window to realize the pan left/right and tilt up/down movements. You can also pinch two fingers together to zoom out or spread them apart to zoom in the live view.



Icon	Description
	Start / stop the auto-scan.
	Zoom control: Zoom+ / Zoom-
	Focus control: Focus+ / Focus-
	Iris control: Iris+ / Iris-
	Set and call the preset.

Setting a Preset

Steps:

1. In the PTZ control mode, slide on the live view window to move the camera to the desired scene.
2. Click to access the following dialog box.

3. Slide the number area to set the preset No..
   Note: The preset No. should be between 1 and 256.
4. Click **Set** to finish the preset settings.

Calling a Preset

For the programmed preset, you can slide to set the preset No. in the dialog box and click **Call** to call it.
After completion of PTZ control, click to hide the PTZ control panel.

Image Quality

There are three defined image quality types provided, including Clear, Balanced and Fluent. And you can also customize the image quality. Click to adjust the quality according to the performance of your network and phone hardware.
Note: If you change the image quality, the live view and recording of the device may be affected due to the new settings.

Customize the Image Quality

Steps:

1. Click to activate the customized panel shown below.

2. Configure the parameters according to actual needs, including Stream Type, Resolution, Frame Rate and Bitrate.
3. Click **Confirm** to save the settings.

Note: The live view effect is related to the performance of your network and phone hardware. If the live view is not fluent or the screen appears blurred, please reduce the resolution, frame rate and bitrate of the camera in Custom mode, or set the image quality as Balanced or Fluent mode.
The following table shows the recommended frame rate and bitrate configuration for different resolution at H.264 video compression by using iPhone5.

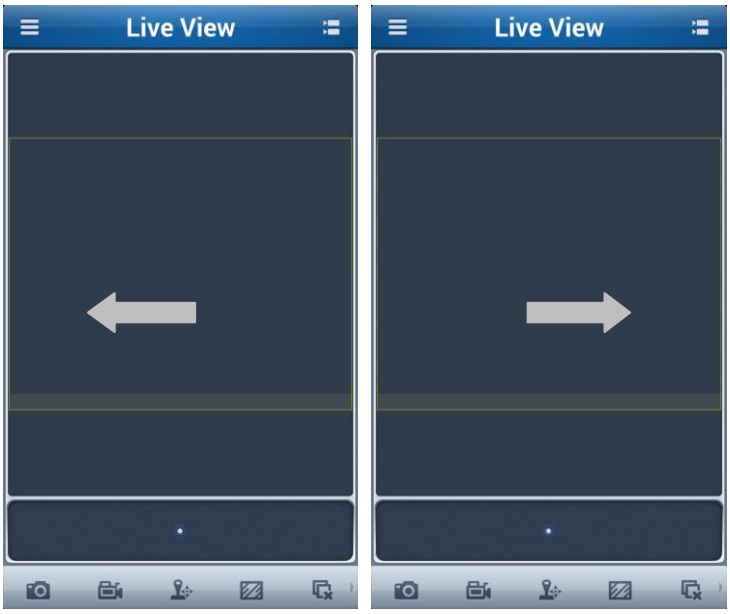
Resolution	1-ch	2-ch	3-ch	4-ch	Recommended Configuration
HD1080P	√				Frame rate: 6fps; Bitrate: 1024Kbps
UXGA	√				Frame rate: 10fps; Bitrate: 1024Kbps

XVGA	√				Frame rate: 15fps; Bitrate: 1024Kbps
HD720P	√				Frame rate: 20fps; Bitrate: 1024Kbps
4CIF	√				Frame rate: 25fps; Bitrate: 1024Kbps
VGA	√				Frame rate: 25fps; Bitrate: 512Kbps
CIF	√	√	√		Frame rate: 25fps; Bitrate: 256Kbps
QVGA	√	√	√	√	Frame rate: 25fps; Bitrate: 128Kbps
QCIF	√	√	√	√	Frame rate: 25fps; Bitrate: 128Kbps

Window Division

When multiple cameras are under live view, they are 4-division mode by default. You can double-click the live view window to display the camera in 1-division mode and double-click again to restore.

When there are multiple pages of playing windows, you can slide the screen to go to the next or previous page.



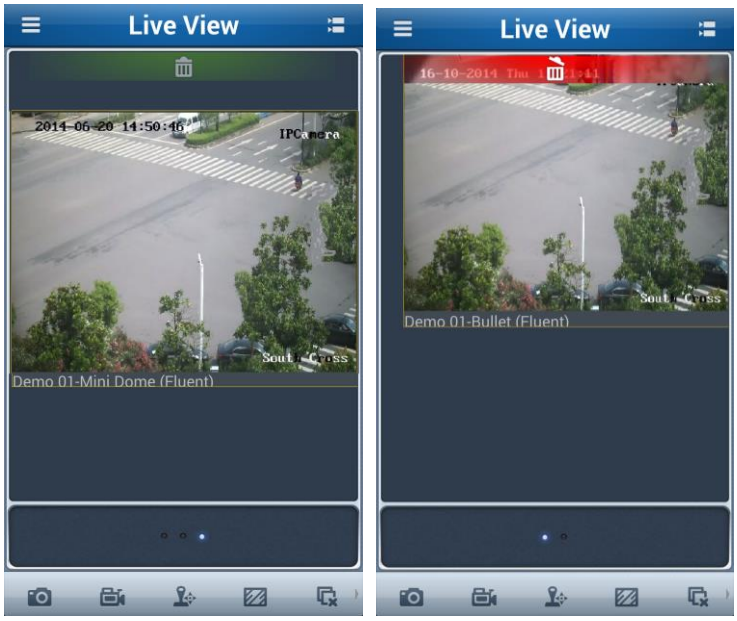
Stop Live View

During the live view, you can click (it changes to) to stop live view of all cameras. And you can also click to recover the previous live view.

Or you can perform the following steps to stop live view of the specific camera.

Steps:

1. Click and hold the live view window.
2. Drag the window upwards, and the shows on the top of the window.
3. Drag the window to the until it changes to and then release the window.



Alarm Output Control

You can control the alarm outputs of the added device by the software.

Note: The alarm output should be supported by the device.

Steps:

1. Slide the icon toolbar to access the hidden icons.
2. Click to activate the alarm output control panel.

3. Select an alarm output and click it to set it as to enable this alarm output. You can also click the enabled alarm output to set it as to disable it.

Digital Zoom

You can realize the digital zoom during live view.

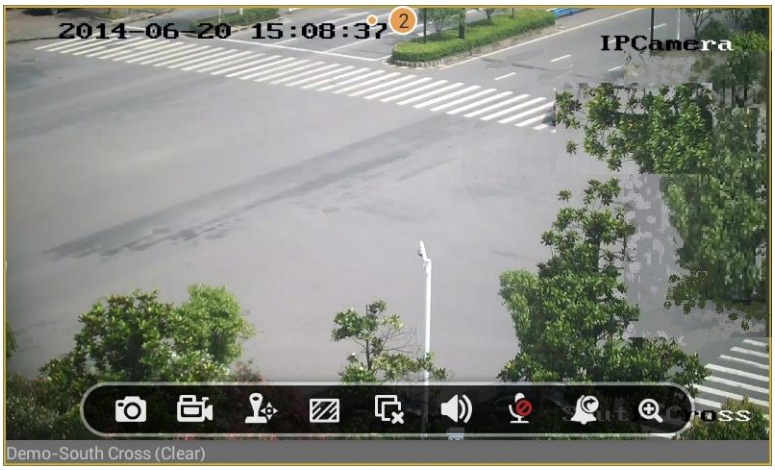
Steps:

1. Click to select a playing window.
2. Slide the icon toolbar to access the hidden icons.
3. Click and the selected window will be display in 1-division mode.
4. Spread two fingers apart to zoom in or pinch them together to zoom out the live view. Or you can double-click on the live view image to realize digital zoom.

Full-screen Live View

During live view, you can rotate the iPhone to enter the full-screen mode. You can press and drag the toolbar to adjust its position.

Note: Please release the rotation lock of the iPhone to realize this function. You can touch the screen to activate the control panel after it hides.



Icon	Description
	Capture picture of the selected live view window.
	Record the video of the selected live view window.
	PTZ control panel.
	Image quality panel.
	Stop all the live view.
	Audio control.
	Two-way audio.
	Alarm output control panel.
	Digital zoom.

Chapter 6 Remote Playback

You can search the recorded video files stored in the added device for playback.

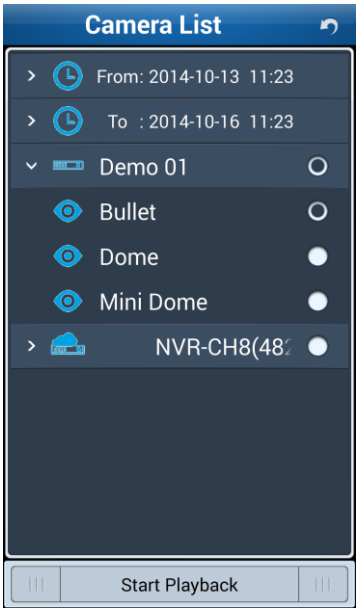
Start Playback

Steps:

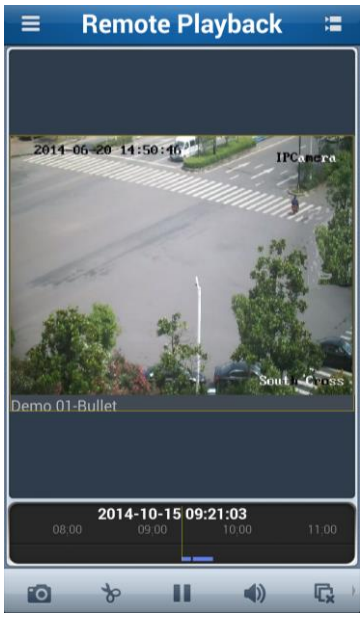
1. Click and select to enter the Remote Playback interface.
2. Click to display the added device list.
3. Set the start time and end time in the **From** and **To** field to define the search condition.
4. Select a device node and click to list all the cameras under it.
5. Select radio button in the camera item to select a camera for playback.

   Notes:

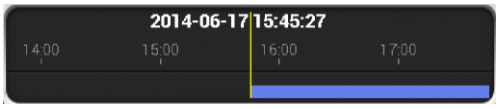
   1) You can slide the camera list downwards to refresh the device status.
   2) If you select radio button in the device item, then the first camera of the device is selected for playback.
   3) Only the camera with record during that period can be played back successfully.



6. Click **Start Playback** to start playback.



7. You can slide the timeline bar to adjust the playback time.



Icon	Description
	Capture picture of the playback window.
	Clip the playback video.
	Pause the playback.
	Stop the playback.
	Audio control.
	Digital zoom.

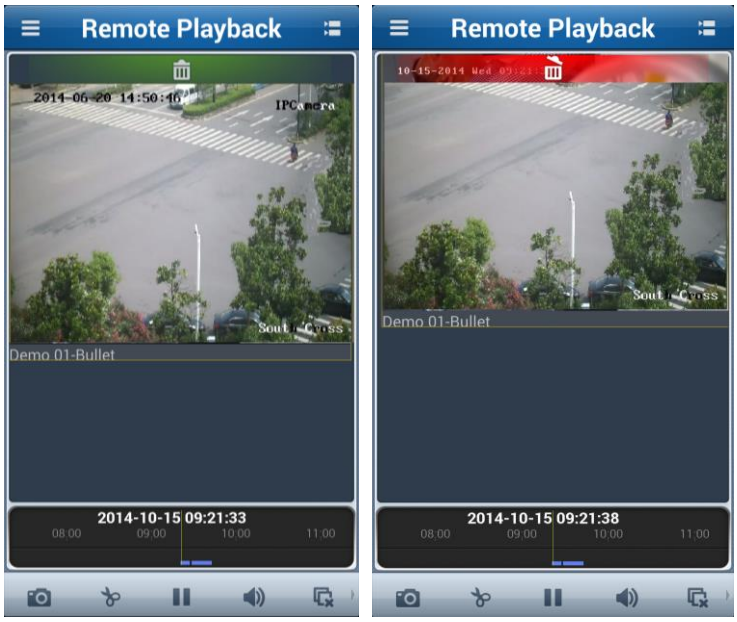
Note: You can slide the icon toolbar to show the hidden icons.

Stop Playback

You can click to stop the playback.
Or you can perform the following steps to stop the playback.

Steps:

1. Click and hold the playback window.
2. Drag the window upwards, and the shows on the top of the window.
3. Drag the window to the until it changes to and then release the window.



Clip & Capture

During the playback, you can click to clip the playback video, or click to capture pictures of it.

The clipped video and captured pictures can be viewed and managed in the Picture & Video Management interface (refer to *Chapter 8*).

Digital Zoom

You can realize the digital zoom during playback of video files.

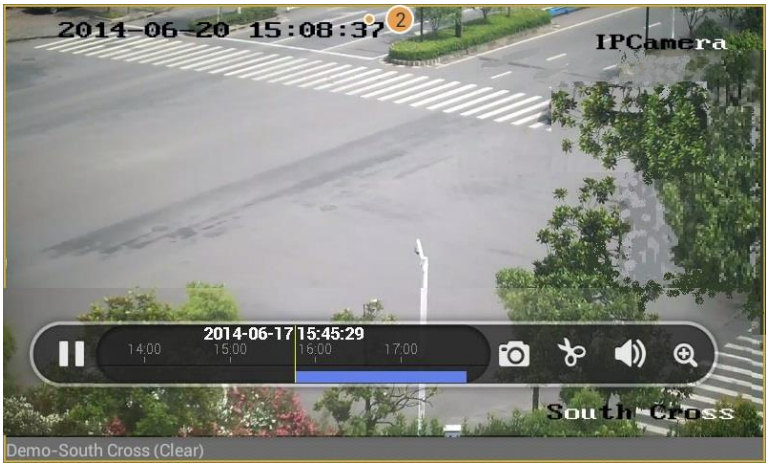
Steps:

1. Slide the icon toolbar to access the hidden icons.
2. Click and then spread two fingers apart to zoom in or pinch them together to zoom out the video. Or you can double-click on the playing video to realize digital zoom.

Full-screen Playback

During playback, you can rotate the iPhone to enter the full-screen mode. You can press and drag the toolbar to adjust its position.

Note: Please release the rotation lock of the iPhone to realize this function. You can touch the screen to activate the control panel after it hides.



Icon	Description
	Pause the playback.
	Capture picture of the playback video.
	Clip the playback video.
	Audio control.
	Digital zoom.

Chapter 7 Alarm Management

In Alarm Management interface, you can enable alarm notification, manage alarm information, and view the alarm linked video.

Alarm Notification

Steps:

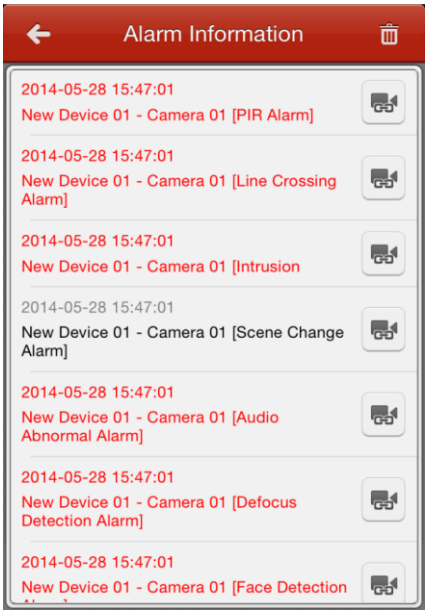
1. Click and select to enter the Alarm Management interface.
2. Click **Alarm Push Notification** to enter the Alarm Push Notification interface.

3. Select a device and set the as to enable the alarm notification of the device. In this way, the alarm information can be pushed to your iPhone at the first time.
   Note: The device should be armed and support alarm notification.
4. When you receive a notification, it appears briefly at the top of the screen. You can ignore the notification or click it to address it right away. Otherwise, the notification displays in the alarm information directly.

Alarm Information

Steps:

1. Click **Alarm Information** to enter the alarm information interface, you can view the received alarm information.


Alarm Information
2014-05-28 15:47:01
New Device 01 - Camera 01 [PIR Alarm]
2014-05-28 15:47:01
New Device 01 - Camera 01 [Line Crossing Alarm]
2014-05-28 15:47:01
New Device 01 - Camera 01 [Intrusion
2014-05-28 15:47:01
New Device 01 - Camera 01 [Scene Change Alarm]
2014-05-28 15:47:01
New Device 01 - Camera 01 [Audio Abnormal Alarm]
2014-05-28 15:47:01
New Device 01 - Camera 01 [Defocus Detection Alarm]
2014-05-28 15:47:01
New Device 01 - Camera 01 [Face Detection

2. You can select a piece of alarm information and slide the item to access the **Delete** button. Click **Delete** to delete the selected alarm information.
3. If you want to clear all the alarm information, you can click .

Notes:

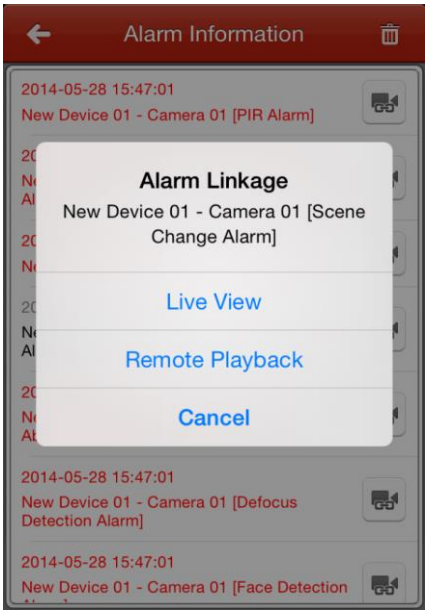
- Up to 1000 pieces of alarm information can be pushed to the alarm information list and only the alarm information within 24 hours will be dispalyed.
- The alarm supported to be pushed to the software includes motion detection alarm, video loss alarm, video tampering alarm, sensor alarm, line crossing detection alarm, intrusion detection alarm, face detection alarm, scene change detection alarm, audio exception alarm, defocus detection alarm and PIR alarm.

Alarm Linkage

Steps:

1. In the alarm information interface, select a piece of alarm information and click .
2. In the pop-up message box, select **Live View** or **Remote Playback** to view the live view or record file of the camera that occurs motion detection, video loss, video tampering, line crossing, intrusion, face detection, scene change detection, audio exception, defocus detection or PIR alarm.

   Note: The related record file will be played from 30s before the alarm occurs to 90s after the alarm. E.g., if the motion detection alarm occurred at 11:30:00, then the record file is from 11:29:30 to 11:31:30.


Alarm Information
2014-05-28 15:47:01
New Device 01 - Camera 01 [PIR Alarm]
Alarm Linkage
New Device 01 - Camera 01 [Scene Change Alarm]
Live View
Remote Playback
Cancel
2014-05-28 15:47:01
New Device 01 - Camera 01 [Defocus Detection Alarm]
2014-05-28 15:47:01
New Device 01 - Camera 01 [Face Detection

Chapter 8 Picture & Video Management

In Picture and Video Management interface, you can view and manage the local video files and pictures that you manually record (clip) and capture in Live View and Remote Playback interface. The video files and pictures can be exported to your computer via iTunes. You can also export the pictures to your photo album of your iPhone, or send the pictures and videos to your email.

The pictures and videos are dispalyed by date.

If you want to export pictures to your photo album, please perform the following steps.

1. Click and then select the pictures for exporting.
2. Click and select .
3. Click **Confirm** to export the selected pictures to your photo album.

If you want to send the pictures and videos to your email, please follow the steps.

1. Click and then select the pictures and videos for sending.
2. Click and select .
3. On the pop-up email interface, edit the receiver's account and email subject, and click **Send** to send the pictures and videos to the designate email account.

If you want to delete the pictures and videos in batch, perform the steps below.

Steps:

1. You can click and then select the pictures and videos you want to delete.
2. Click to delete the selected file(s). Or you can click to cancel it.

Picture Management

Steps:

1. Click and select to enter the Picture & Video Management interface.
2. Click a picture and the picture displays in full screen. You can click if you want to delete it, and click to select to export the picture to your photo album or send it to your email.

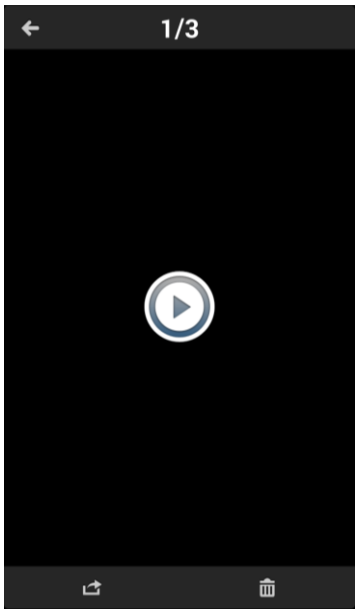
3. You can pinch two fingers together to zoom out or spread them apart to zoom in the picture. Or you can double-click on the picture to realize digital zoom. You can also slide to pan the picture under zoom-in mode.
4. Click to back to the Picture & Video Management interface.

Video Management

Steps:

1. In the Picture & Video Management interface, click a video and the video shows in full screen. You can click if you want to delete it, and click to send it to your email.

   Note: Exporting the clipped video to your photo album is not supported.



2. Click to play it. You can slide the time line bar to adjust the playback time.

   Capture a picture of the playback video.

   Pause the playback.

Audio control.

3. You can also rotate the iPhone to enter the full-screen mode.
   Note: Please release the rotation lock of the iPhone to realize this function.

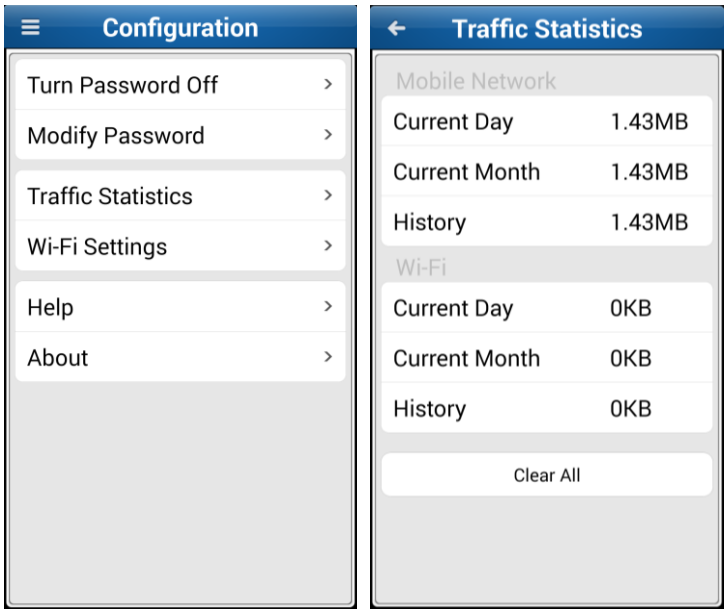
Chapter 9 System Configuration

Check Traffic Statistics

The network traffic consumed during live view and remote playback can be checked. You can check the mobile network traffic and Wi-Fi network traffic separately.

Steps:

1. Click and select to enter the Configuration interface.



2. Click **Traffic Statistics** to enter the Traffic Statistics interface. The recorded traffic data lists.
   Mobile Network: Refer to the cellular data consumed during live view and remote playback.
   Wi-Fi: Refer to the Wi-Fi data consumed during live view and remote playback.
   Current Day: The traffic data consumed today.
   Current Month: The traffic data consumed this month.
   History: The traffic data consumed since you started using the software.
3. (Optional) You can click **Clear All** to empty the data.

Wi-Fi Settings

The software provides the function of generating the QR code of Wi-Fi network. The network camera can scan the QR code to connect to the Wi-Fi network conveniently.

Steps:

1. Click and select to enter the Configuration interface.
2. Click **Wi-Fi Settings** to enter the Wi-Fi Settings interface.

3. Enter the Wi-Fi Name (known as SSID) and password of the Wi-Fi network, select the encryption type which should be the same as the settings of the router, and click **Generate** to generate a QR code for the Wi-Fi network.
   Note: If you select no password as the encryption type, the password for the Wi-Fi is not required.
4. The network camera can connect to this network by scanning the QR code.
   Notes:
   - This function should be supported by the network camera.
   - For detailed operation of the camera, please refer to the *User Manual* of the network camera.
5. (Optional) Click **Save** to save the Wi-Fi network and you can check it in the Wi-Fi List interface.

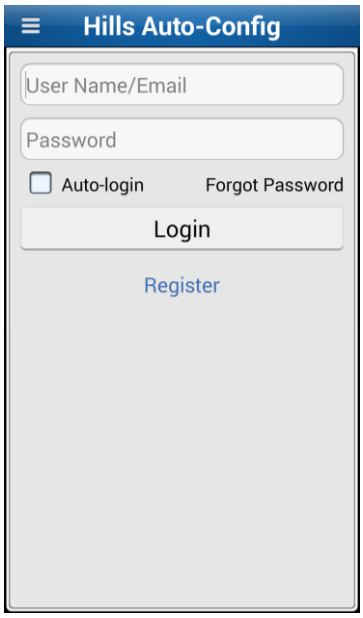
Update the Software

When there is a new version available in the **App Store**, the software will prompt you to update the software. You can confirm to update the software immediately. You can also cancel it and perform the following steps to update the software next time as desired.

Steps:

1. Click and select to enter the Configuration interface.
2. Click **About** to enter the About interface.
3. If the *New* is in the **Software Update** item, click **Software Update** to activate the software update dialog box.
4. Click **Confirm** to confirm updating the software and enter **App Store** to update the software.
   Note: The *New* displays when there is a new version available in the **App store**.

Chapter 10 Hills Auto-Config Serivce

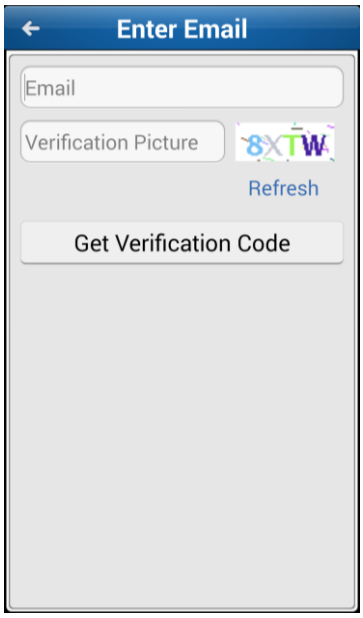


Register an Account

If you do not have a Hills Auto-Config account, you can register one.

Steps:

1. Click and select to enter the Hills Auto-Config interface.
2. Click **Register** to enter the account registration interface.
   Enter your email account and the picture verification code. Click **Get Verification Code** and enter the verification code received by your email.
   Note: If the picture verification code is not clear, you can click **Refresh** to get a new one.



3. Configure the user name and password for your Hills Auto-Config account to complete the registration.

Login

Steps:

1. Enter the user name, email account or mobile phone, input the password and click **Login**.

   Notes:

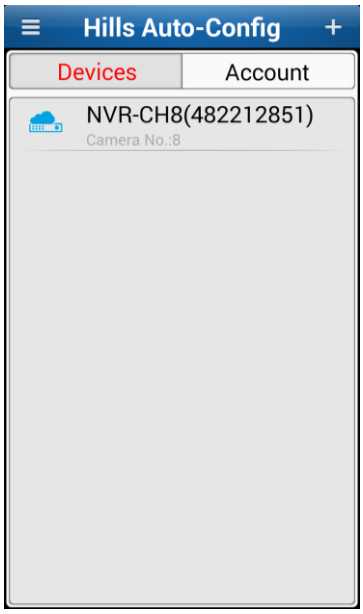
   - You can check **Auto-login** checkbox to remember the user name and password log into the software automatically.
   - If you forget your password, click **Forgot Password** to verify your account and reset your password.

Device Management

1. Click and use your phone to scan the serial No. on the label of your device by aligning the QR Code with the scanning frame. Or you can click and enter the serial No. (9-bit) of the device and click to search the device.

   Notes:

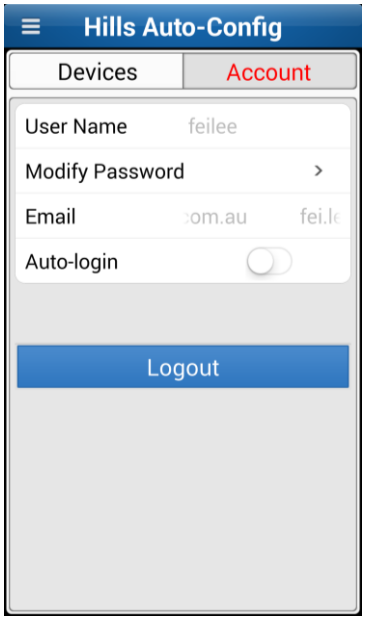
   - Only the device that supports the Hills Auto-Config service can be added.
   - The device can only be added to one Hills Auto-Config account.



2. The successfully added device will list on the device management interface and you can click **Start Live View** to view the live video of the device.
3. On the Devices interface, select a device and slide the item to access the **Delete** button. Click **Delete** to remove the selected device.

Account Management

Click Account tab and you can manage your Hills Auto-Config account.
Click **Modify Password** to change the password.
Set the as to enable the auto-login function.
To log out of Hills Auto-Config, you can click **Logout**.



Appendix

Version History